

AMENDMENTS TO THE CLAIMS

Please cancel claims 6-8, 17-19, and 23-28 without prejudice or disclaimer, add claims 29-35, and amend claims 1-5, 9-16, and 20-22 as follows:

1. (Currently Amended) A fuel cell comprising:

~~a solid electrolyte membrane,~~

~~a fuel electrode and an oxidizer electrode with the solid electrolyte membrane between them,~~

and

a liquid fuel supply section;

a fuel electrode supplied with ~~for supplying~~ liquid fuel by ~~to~~ the liquid fuel supply section ~~electrode;~~

a solid electrolyte membrane; and wherein: the

an oxidizer electrode formed such that the solid electrolyte membrane is formed between the ~~fuel electrode and the oxidizer electrode, the oxidizer electrode comprising~~ includes a base material and a catalyst layer, the catalyst layer formed between the base material and the solid electrolyte membrane; and the base material comprising: includes therein

a first layer having hydrophobic properties; and

a second layer having hydrophilic properties, the first layer nearer to which are ~~arranged in this order in the direction from the catalyst layer side to the outside than of the second~~ layer cell, said second layer comprising a roughened surface, said roughened surface comprising one of a sandblasted surface and an acid-treated surface.

2. (Currently Amended) The fuel cell claimed in claim 1, wherein the base material is formed of comprises porous conductive material.

3. (Currently Amended) The fuel cell claimed in claim 1, wherein the base material comprises one of ~~is formed of~~ carbon paper and ~~or~~ foam metal.
4. (Currently Amended) The fuel cell claimed in claim 1, wherein the first layer comprises includes a water repellent resin.
5. (Currently Amended) The fuel cell claimed in claim 4, wherein the water repellent resin includes comprises a fluorine-containing resin.
6. – 8. (Canceled)
9. (Currently Amended) The fuel cell claimed in claim 1, wherein the base material further includes therein comprises a third layer having hydrophobic properties, the third layer being farther from formed in the catalyst layer than is direction from the second layer ~~toward the outside of the cell.~~
10. (Currently Amended) The fuel cell claimed in claim 9, wherein the third layer comprises includes a water repellent resin.
11. (Currently Amended) The fuel cell claimed in claim 10, wherein the water repellent resin comprises includes a fluorine-containing resin.
12. (Currently Amended) A fuel cell electrode for a liquid fuel supply type fuel cell, said fuel cell electrode comprising:

a base material and a catalyst layer formed on a ~~one~~ surface of the base material, wherein the base material comprising: ~~includes therein~~

a first layer having hydrophobic properties; and

a second layer having hydrophilic properties, the first layer nearer to which are arranged in this order in the direction from the catalyst layer side in than the second direction away from the catalyst layer, said second layer comprising a roughened surface, said roughened surface comprising one of a sandblasted surface and an acid-treated surface.

13. (Currently Amended) The fuel cell electrode claimed in claim 12, wherein the base material ~~is formed of~~ comprises porous conductive material.

14. (Currently Amended) The fuel cell electrode claimed in claim 12, wherein the base material ~~is formed of~~ comprises one of carbon paper ~~and~~ or foam metal.

15. (Currently Amended) The fuel cell electrode claimed in claim 12, wherein the first layer ~~includes~~ comprises a water repellent resin.

16. (Currently Amended) The fuel cell electrode claimed in claim 15, wherein the water repellent resin ~~includes~~ comprises a fluorine-containing resin.

17. – 19. (Canceled).

20. (Currently Amended) The fuel cell electrode claimed in claim 12, wherein the base material further ~~includes therein~~ comprises a third layer having hydrophobic properties, said third layer being

formed on the second layer and being farther in the direction away from the catalyst layer than is the second layer.

21. (Currently Amended) The fuel cell electrode claimed in claim 20, wherein the third layer includes comprises a water repellent resin.

22. (Currently Amended) The fuel cell electrode claimed in claim 21, wherein the water repellent resin includes comprising a fluorine-containing resin.

23. – 28. (Cancelled).

29. (New) A fuel cell, comprising:

a liquid fuel supply section;

a fuel electrode supplied with liquid fuel by the liquid fuel supply section;

a solid electrolyte membrane; and

an oxidizer electrode formed such that the solid electrolyte membrane is formed between the fuel electrode and the oxidizer electrode, the oxidizer electrode comprising a base material and a catalyst layer, the catalyst layer formed between the base material and the solid electrolyte membrane, the base material comprising:

a first layer having hydrophobic properties;

a second layer having hydrophilic properties, the first layer being nearer to the catalyst layer than is the second layer; and

a third layer having hydrophobic properties, the third layer being farther from the catalyst layer than is the second layer.

30. (New) The fuel cell claimed in claim 29, wherein said second layer further comprises a roughened surface, said roughened surface comprising one of a sandblasted surface and an acid-treated surface.

31. (New) The fuel cell claimed in claim 1, wherein said roughened surface of said second layer has a center line average roughness that is greater than a center line average roughness of a surface of said first layer.

32. (New) The fuel cell claimed in claim 29, wherein a surface of said second layer has a center line average roughness that is greater than a center line average roughness of a surface of said first layer.

33. (New) The fuel cell claimed in claim 3, wherein said foam metal comprises one of stainless steel and nickel metal.

34. (New) The fuel cell claimed in claim 29, wherein said base material comprises foam metal.

35. (New) The fuel cell claimed in claim 34, wherein said foam metal comprises one of stainless steel and nickel metal.